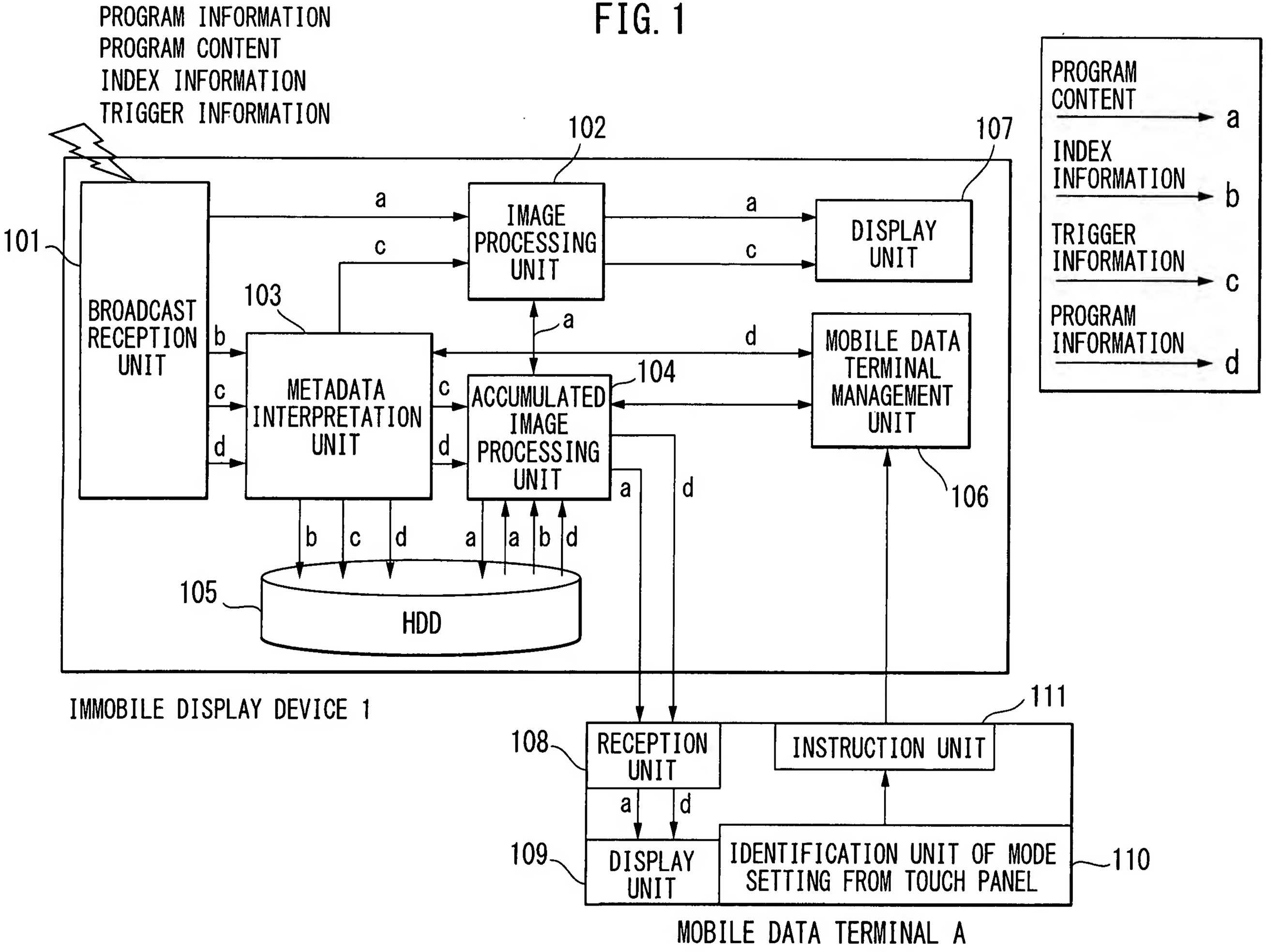
FIG. 1



Inventor: Isao Shindo et al.
ACCUMULATION DISPLAY DEVICE, INTERLOCKED ...
Atty. Docket No. KAN-113US; Customer No. 52473

FIG. 2

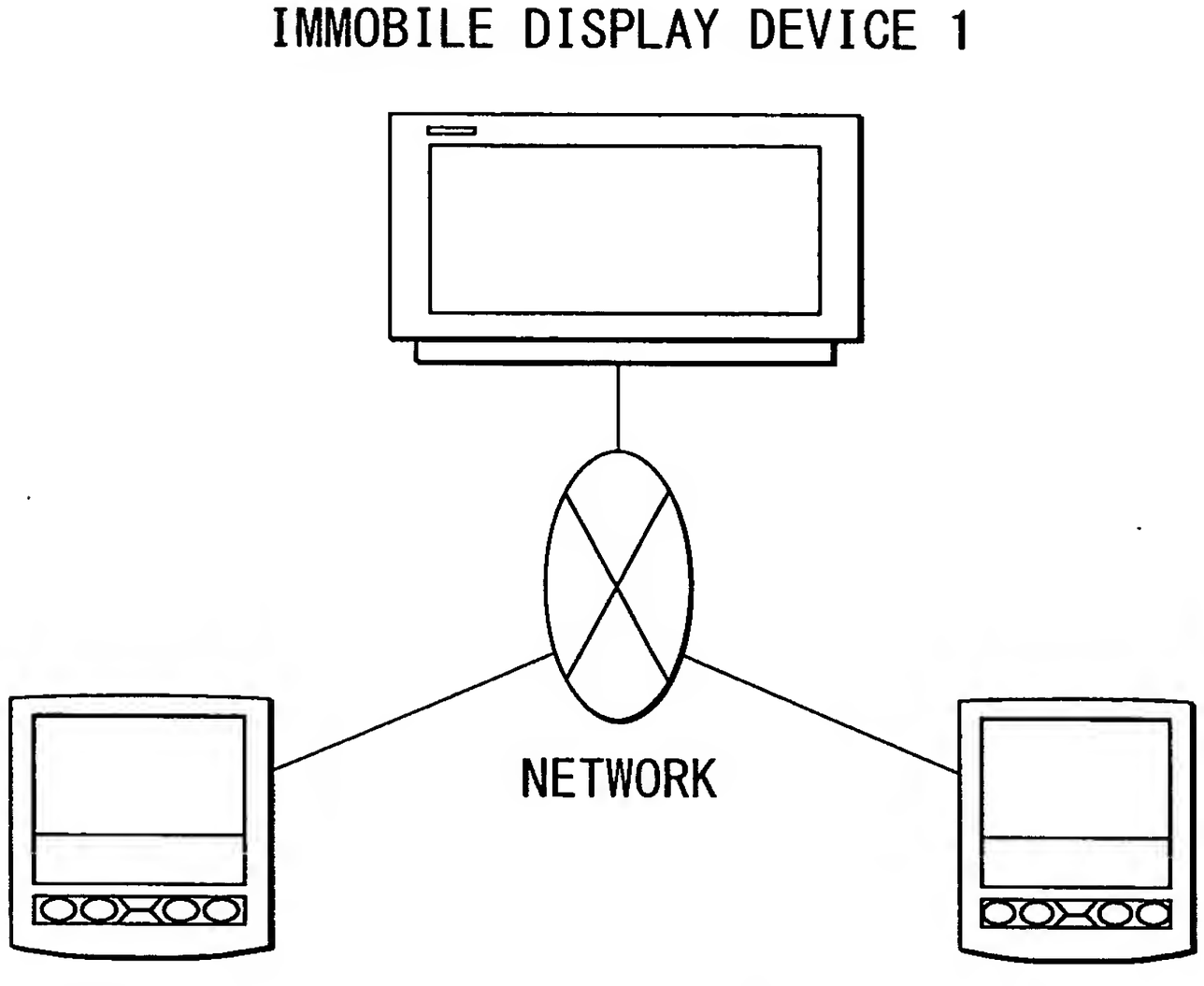

IMMOBILE DISPLAY DEVICE 1
NETWORK
MOBILE DATA TERMINAL A
MOBILE DATA TERMINAL B

FIG. 3

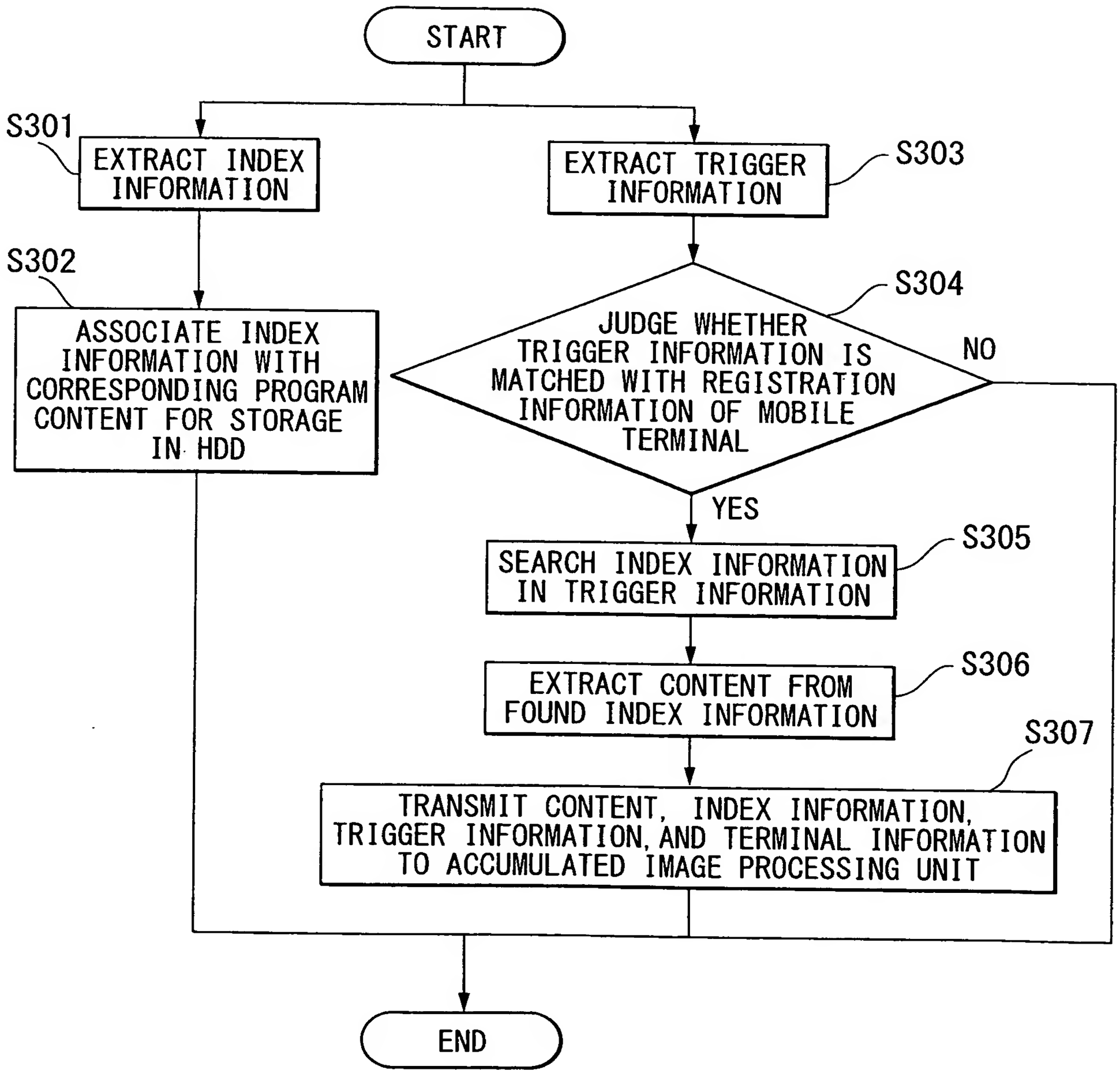

START
S301
EXTRACT INDEX INFORMATION
S302
ASSOCIATE INDEX INFORMATION WITH CORRESPONDING PROGRAM CONTENT FOR STORAGE IN HDD
S303
EXTRACT TRIGGER INFORMATION
S304
JUDGE WHETHER TRIGGER INFORMATION IS MATCHED WITH REGISTRATION INFORMATION OF MOBILE TERMINAL
NO
YES
S305
SEARCH INDEX INFORMATION IN TRIGGER INFORMATION
S306
EXTRACT CONTENT FROM FOUND INDEX INFORMATION
S307
TRANSMIT CONTENT, INDEX INFORMATION, TRIGGER INFORMATION, AND TERMINAL INFORMATION TO ACCUMULATED IMAGE PROCESSING UNIT
END

FIG. 4

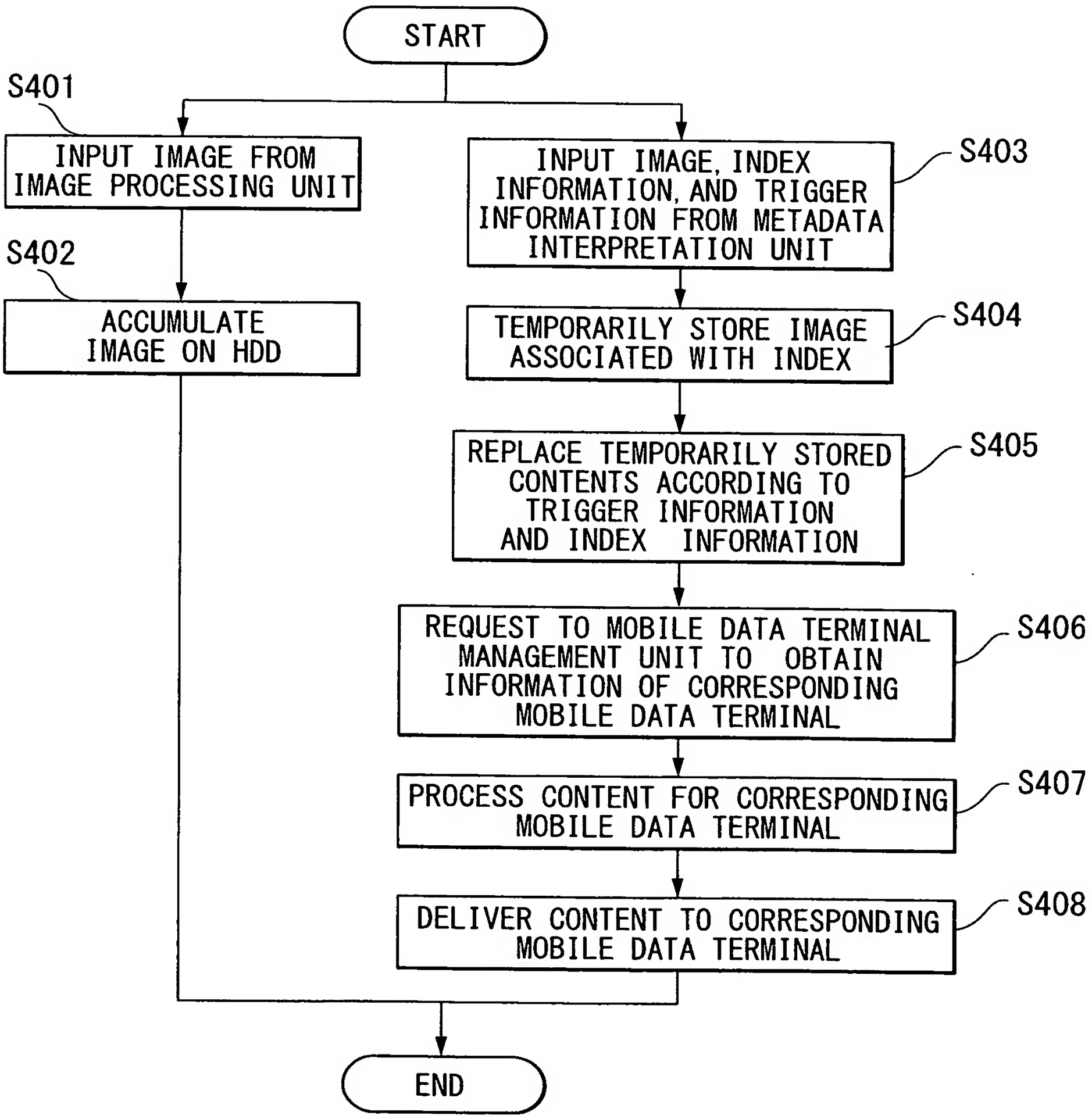

START
S401
INPUT IMAGE FROM IMAGE PROCESSING UNIT
S402
ACCUMULATE IMAGE ON HDD
INPUT IMAGE, INDEX INFORMATION, AND TRIGGER INFORMATION FROM METADATA INTERPRETATION UNIT
S403
TEMPORARILY STORE IMAGE ASSOCIATED WITH INDEX
S404
REPLACE TEMPORARILY STORED CONTENTS ACCORDING TO TRIGGER INFORMATION AND INDEX INFORMATION
S405
REQUEST TO MOBILE DATA TERMINAL MANAGEMENT UNIT TO OBTAIN INFORMATION OF CORRESPONDING MOBILE DATA TERMINAL
S406
PROCESS CONTENT FOR CORRESPONDING MOBILE DATA TERMINAL
S407
DELIVER CONTENT TO CORRESPONDING MOBILE DATA TERMINAL
S408
END

FIG. 5

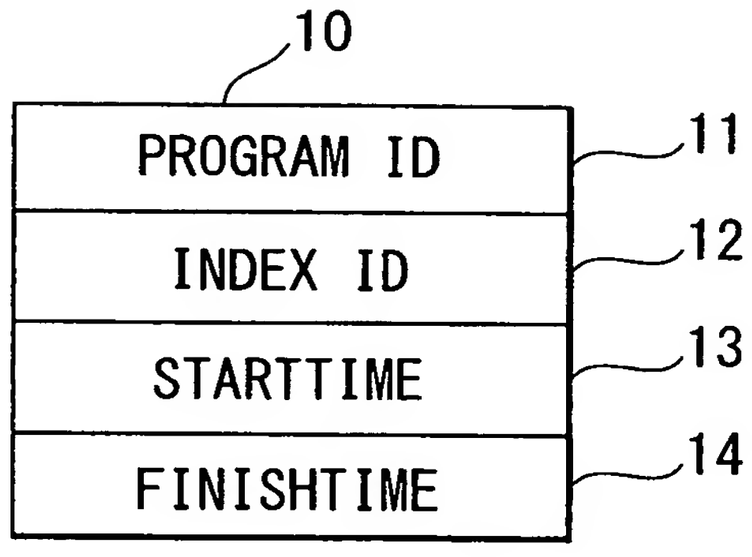


FIG. 6

```
<Content ID="200301011700FUJI">
        <Index ID="001">
                <starttime>200301011903</starttime>
                <finishtime>200301011907</finishtime>
        </Index>
 </Content>
```

FIG. 7

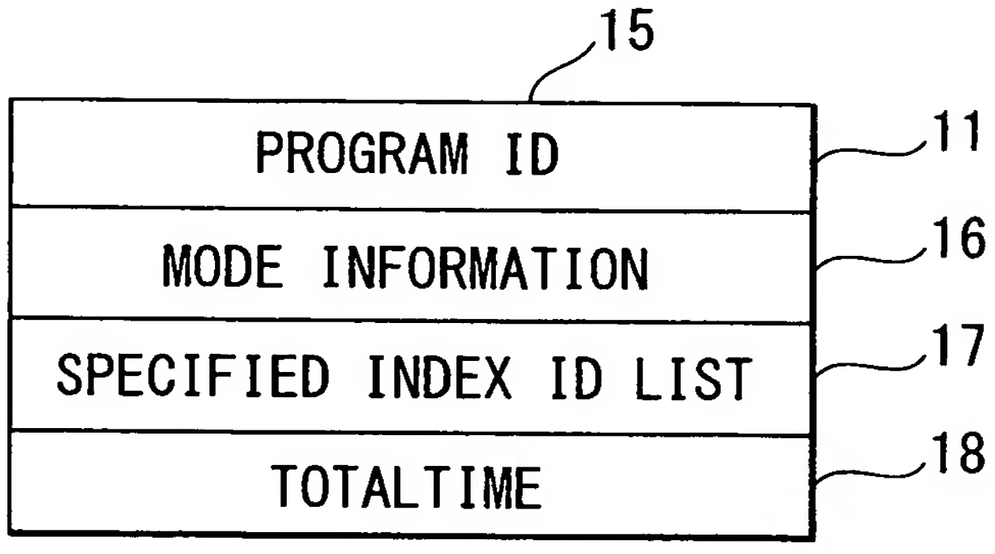

15
PROGRAM ID
11
MODE INFORMATION
16
SPECIFIED INDEX ID LIST
17
TOTALTIME
18

FIG. 8

```
<ContentID="200301011700FUJI">
        <modeInfo modeID="REPLAY">
                <Index totalnum="3">
                        <No1ID="001"/>
                        <No2ID="011"/>
                        <No3ID="035"/>
                </Index>
                <totaltime>00:05:00</totaltime>
        </Trigger>
</Content>
```

Inventor: Isao Shindo et al.
ACCUMULATION DISPLAY DEVICE, INTERLOCKED ...
Atty. Docket No. KAN-113US; Customer No. 52473

FIG. 9

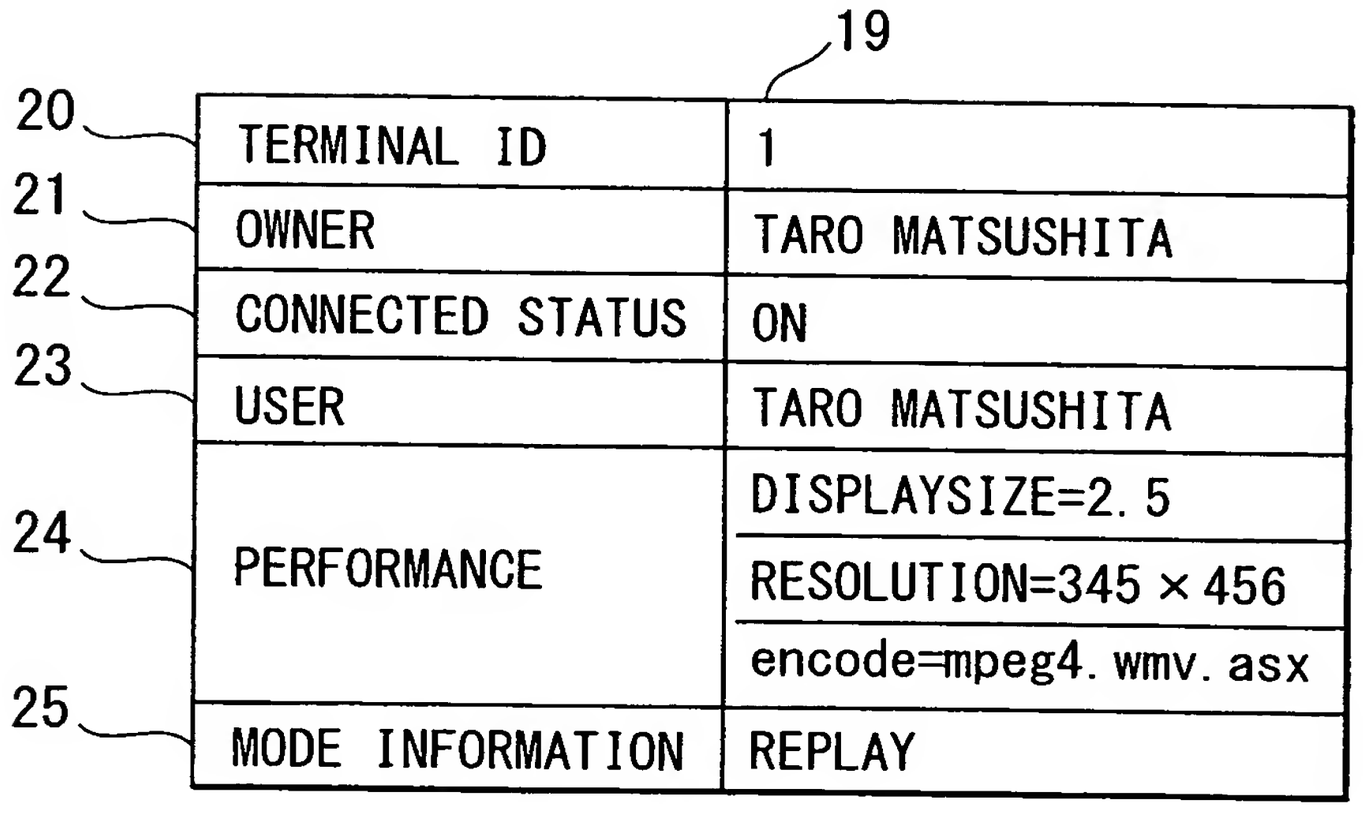
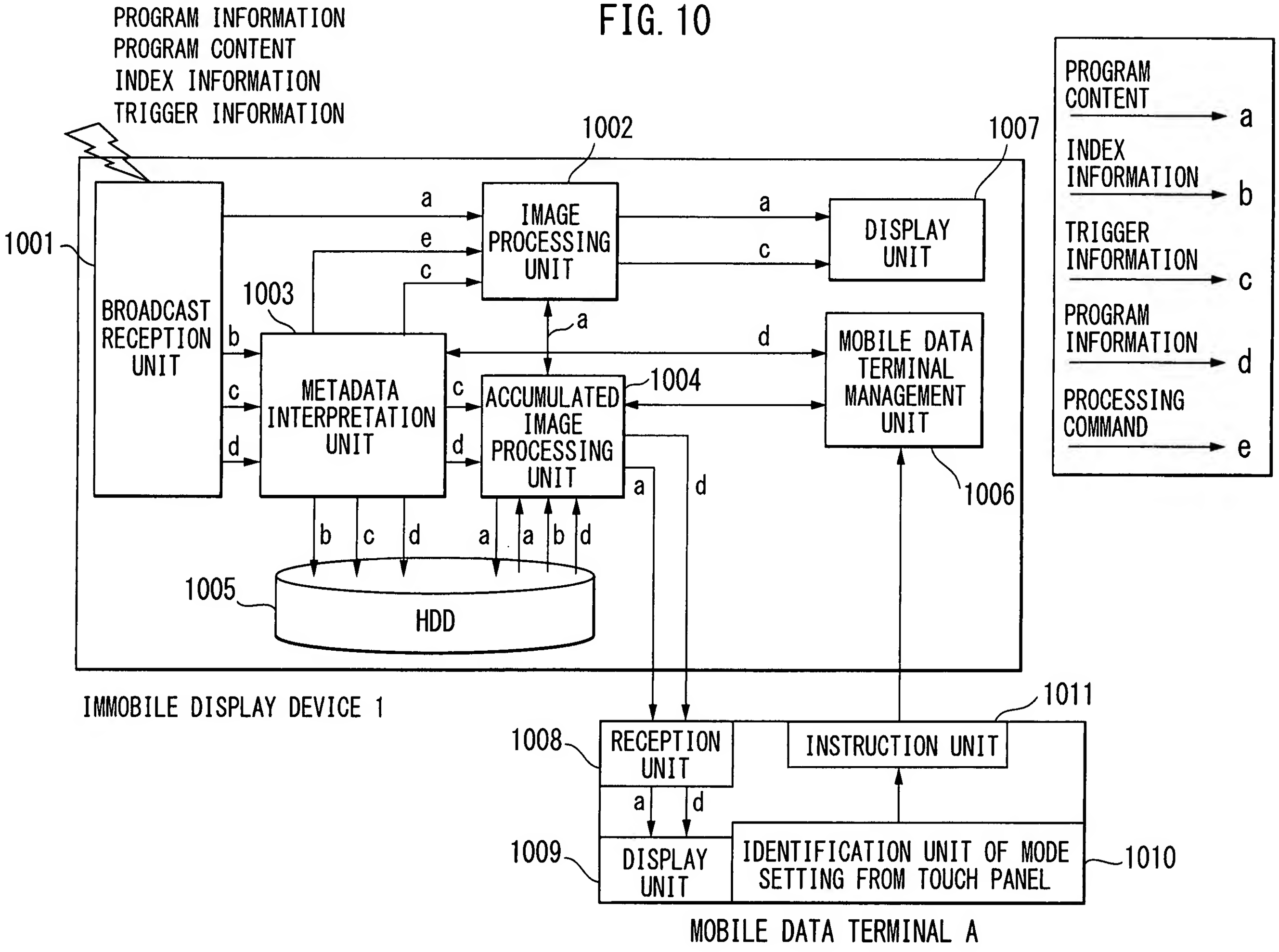

19
20
TERMINAL ID
1
21
OWNER
TARO MATSUSHITA
22
CONNECTED STATUS
ON
23
USER
TARO MATSUSHITA
24
PERFORMANCE
DISPLAYSIZE=2.5
RESOLUTION=345×456
encode=mpeg4.wmv.asx
25
MODE INFORMATION
REPLAY

FIG. 10



Inventor: Isao Shindo et al.
ACCUMULATION DISPLAY DEVICE, INTERLOCKED ...
Atty. Docket No. KAN-113US; Customer No. 52473

FIG. 11

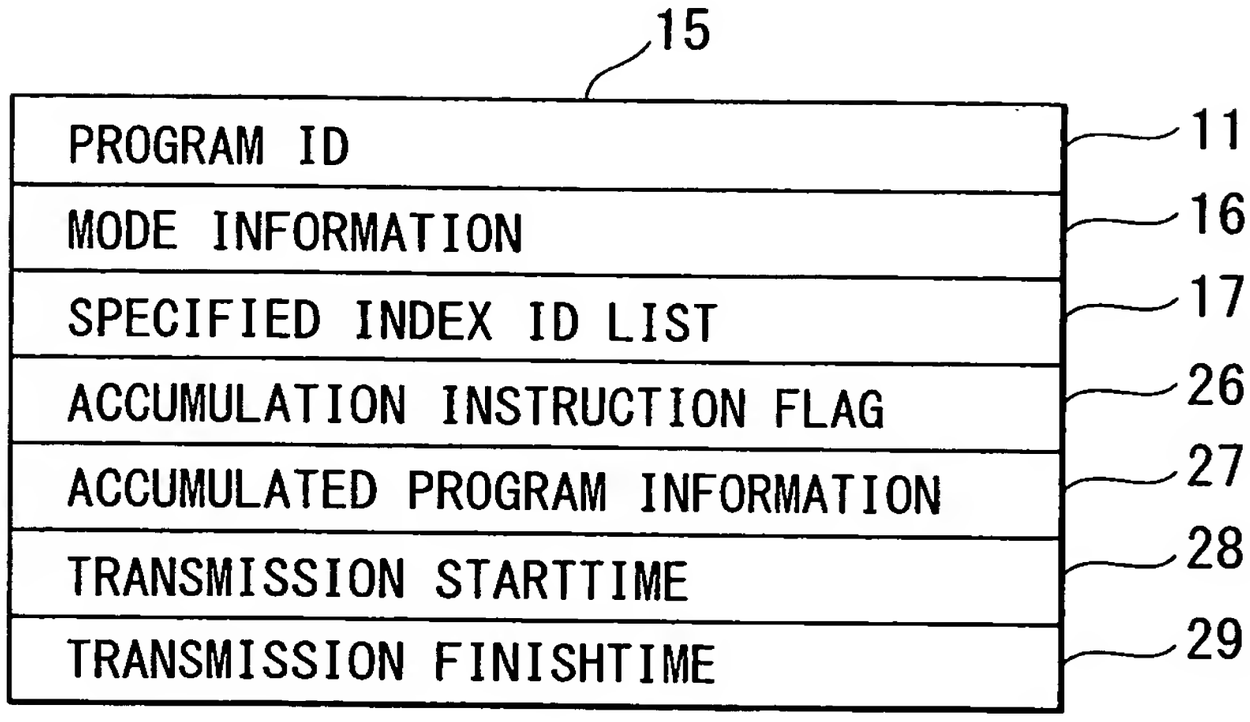
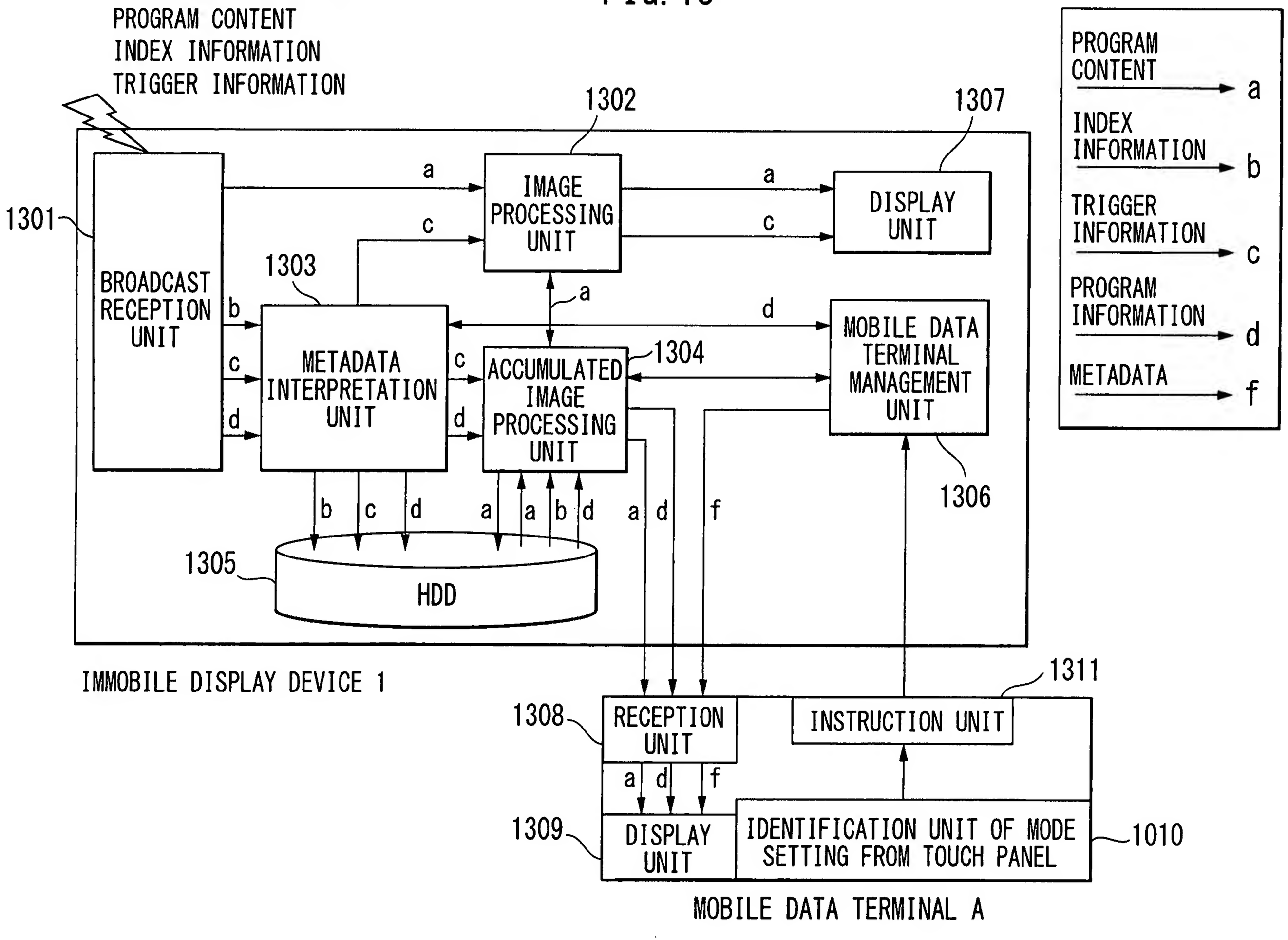

15
PROGRAM ID
11
MODE INFORMATION
16
SPECIFIED INDEX ID LIST
17
ACCUMULATION INSTRUCTION FLAG
26
ACCUMULATED PROGRAM INFORMATION
27
TRANSMISSION STARTTIME
28
TRANSMISSION FINISHTIME
29

FIG. 12

```
<ContentID="200301011700FUJI">
        <modeInfo modeID modeID="PREVIOUS HIGHLIGHT">
                <Index>
                        <No1 ID="999"/>
                </Index>
                <totaltime>00:05:00</totaltime>
                <Indexgrade/>
                <RecodingInfo>
                        <flag>ON</flag>
                        <InfoID="ex001">"HIGHLIGHT OF THE TENTH EPISODE"
                        <Time strat="200301011700"stop="200301011708"/>
                </RecodingInfo>
        </Trigger>
</Content>
```

Inventor: Isao Shindo et al.
ACCUMULATION DISPLAY DEVICE, INTERLOCKED ...
Atty. Docket No. KAN-113US; Customer No. 52473

FIG. 13



Inventor: Isao Shindo et al.
ACCUMULATION DISPLAY DEVICE, INTERLOCKED ...
Atty. Docket No. KAN-113US; Customer No. 52473

FIG. 14

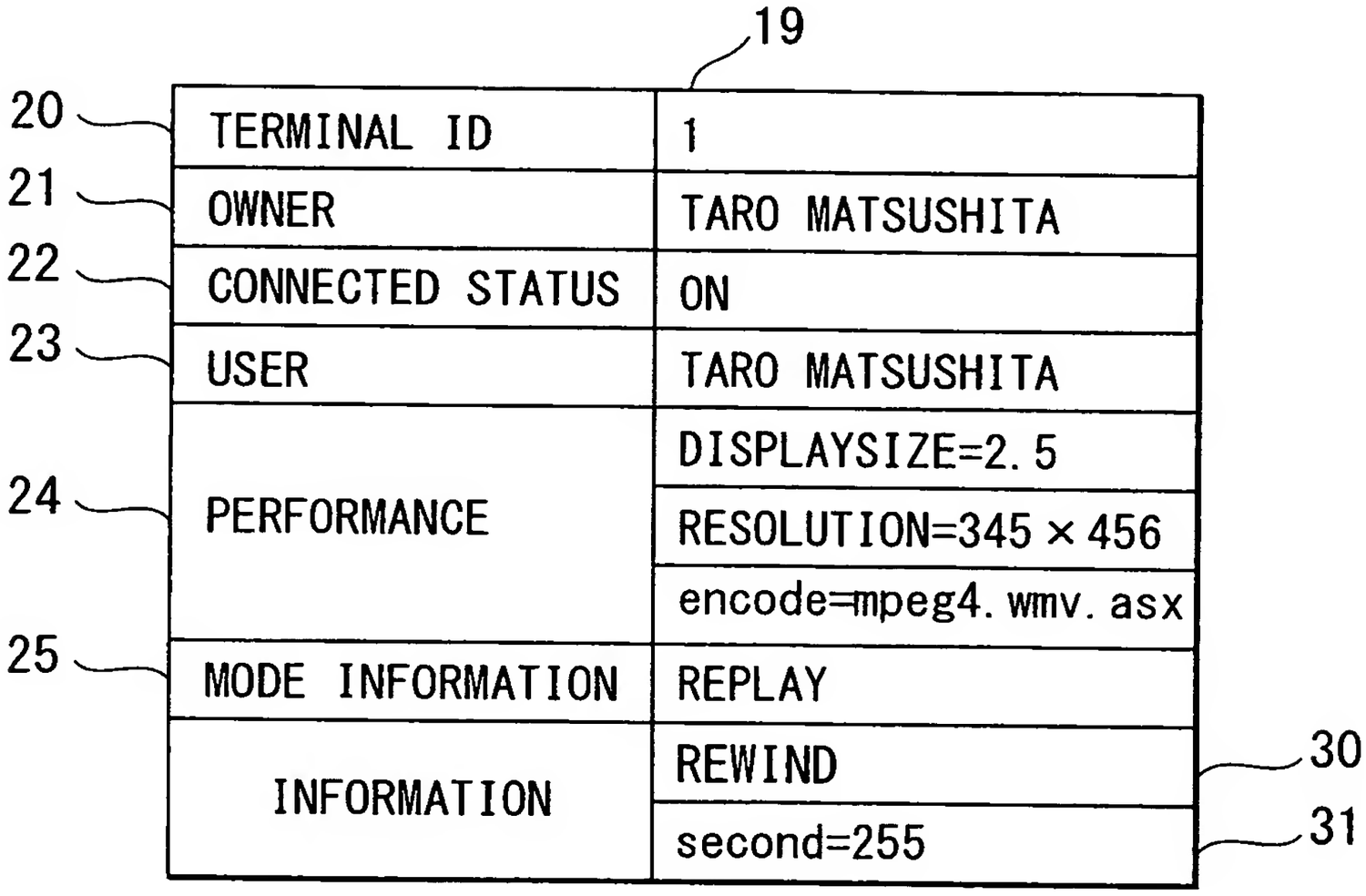

19
20
21
22
23
24
25
30
31
TERMINAL ID
1
OWNER
TARO MATSUSHITA
CONNECTED STATUS
ON
USER
TARO MATSUSHITA
PERFORMANCE
DISPLAYSIZE=2.5
RESOLUTION=345×456
encode=mpeg4.wmv.asx
MODE INFORMATION
REPLAY
INFORMATION
REWIND
second=255

FIG. 15

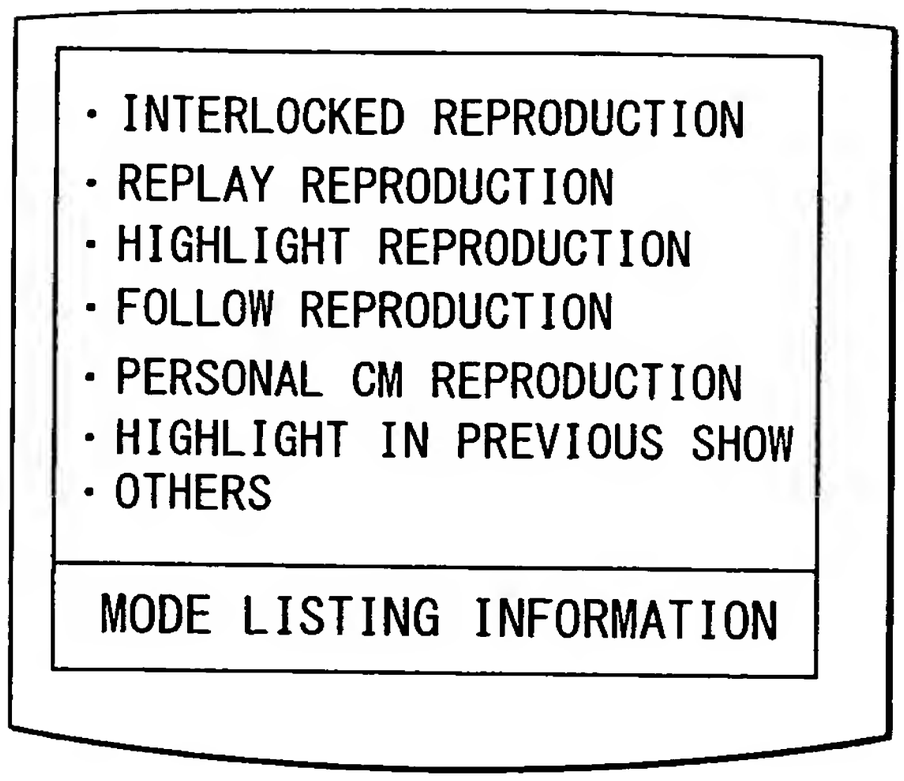

· INTERLOCKED REPRODUCTION
· REPLAY REPRODUCTION
· HIGHLIGHT REPRODUCTION
· FOLLOW REPRODUCTION
· PERSONAL CM REPRODUCTION
· HIGHLIGHT IN PREVIOUS SHOW
· OTHERS
MODE LISTING INFORMATION

FIG. 16

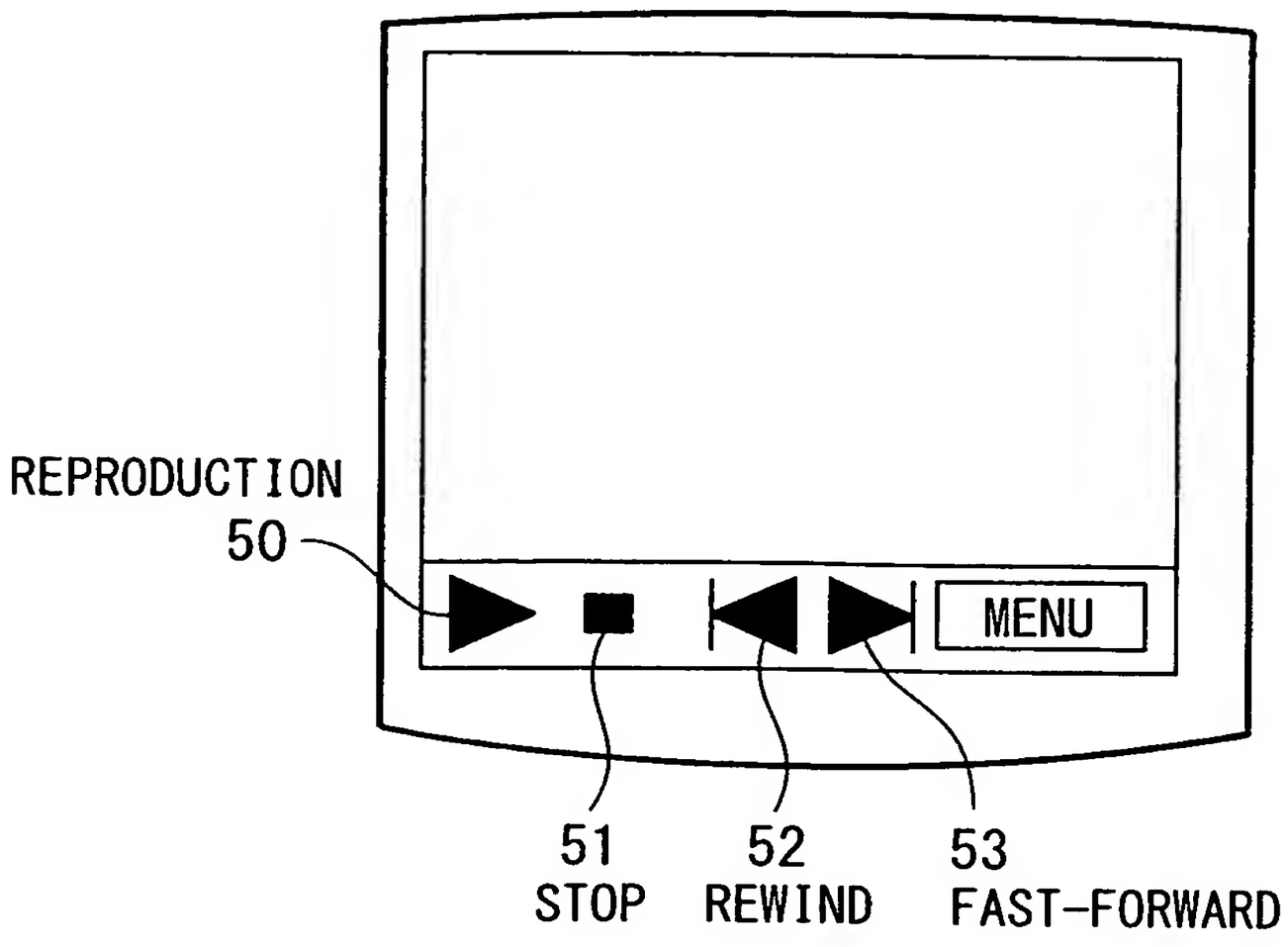

REPRODUCTION
50
MENU
51
STOP
52
REWIND
53
FAST-FORWARD

FIG. 17

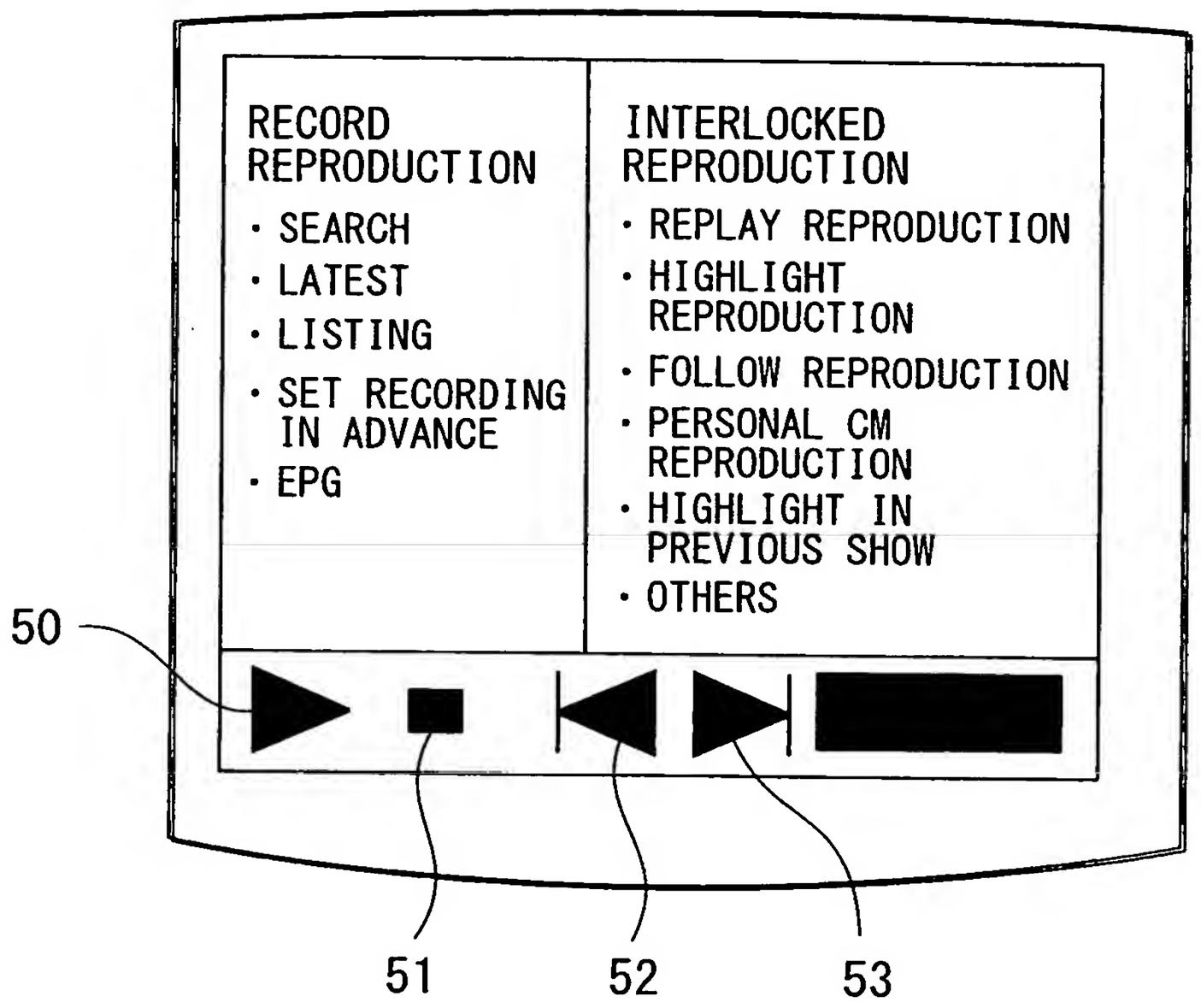

RECORD REPRODUCTION
• SEARCH
• LATEST
• LISTING
• SET RECORDING IN ADVANCE
• EPG
INTERLOCKED REPRODUCTION
• REPLAY REPRODUCTION
• HIGHLIGHT REPRODUCTION
• FOLLOW REPRODUCTION
• PERSONAL CM REPRODUCTION
• HIGHLIGHT IN PREVIOUS SHOW
• OTHERS
50
51
52
53

FIG. 18

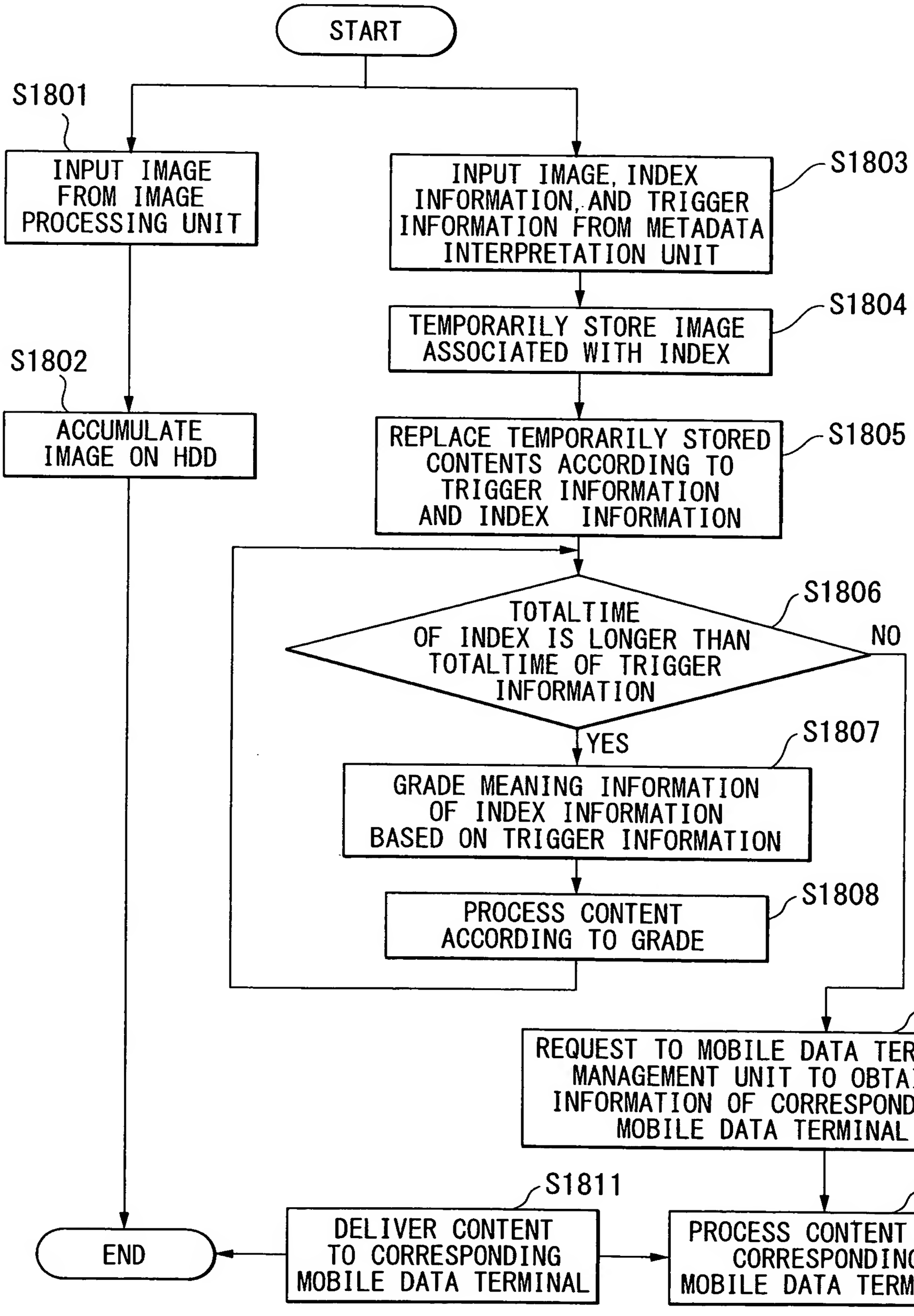

START
S1801
INPUT IMAGE FROM IMAGE PROCESSING UNIT
S1803
INPUT IMAGE, INDEX INFORMATION, AND TRIGGER INFORMATION FROM METADATA INTERPRETATION UNIT
S1804
TEMPORARILY STORE IMAGE ASSOCIATED WITH INDEX
S1802
ACCUMULATE IMAGE ON HDD
S1805
REPLACE TEMPORARILY STORED CONTENTS ACCORDING TO TRIGGER INFORMATION AND INDEX INFORMATION
S1806
TOTALTIME OF INDEX IS LONGER THAN TOTALTIME OF TRIGGER INFORMATION
NO
YES
S1807
GRADE MEANING INFORMATION OF INDEX INFORMATION BASED ON TRIGGER INFORMATION
S1808
PROCESS CONTENT ACCORDING TO GRADE
S1809
REQUEST TO MOBILE DATA TERMINAL MANAGEMENT UNIT TO OBTAIN INFORMATION OF CORRESPONDING MOBILE DATA TERMINAL
S1811
S1810
DELIVER CONTENT TO CORRESPONDING MOBILE DATA TERMINAL
PROCESS CONTENT FOR CORRESPONDING MOBILE DATA TERMINAL
END

FIG. 19

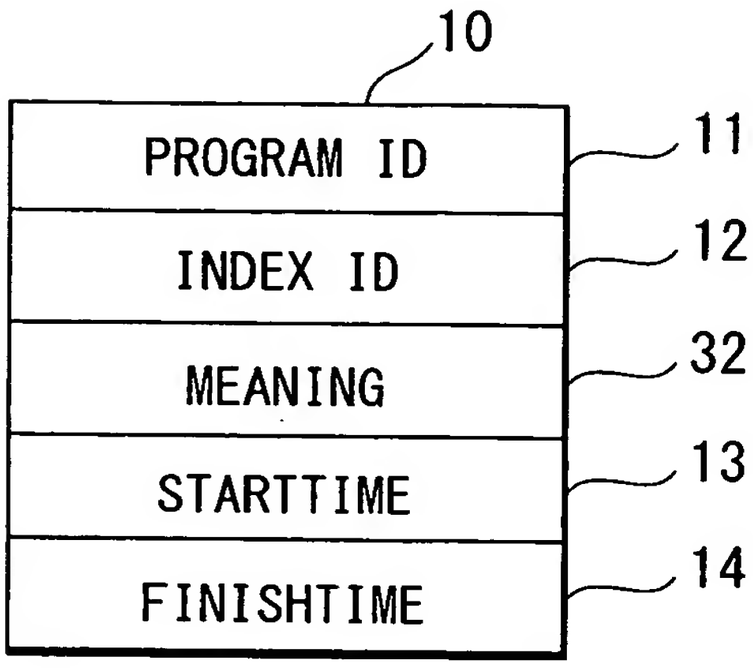


FIG. 20

```
<Content ID="200301011700FUJI">
        <Index ID="001">
                <mean>
                        <person>GIANTS-KIYOHARA</person>
                        <action>HIT</action>
                        <result></result>
                        <number>1</number>
                </mean>
                <starttime>200301011903</starttime>
                <finishtime>200301011907</finishtime>
        </Index>
</Content>
```

FIG. 21

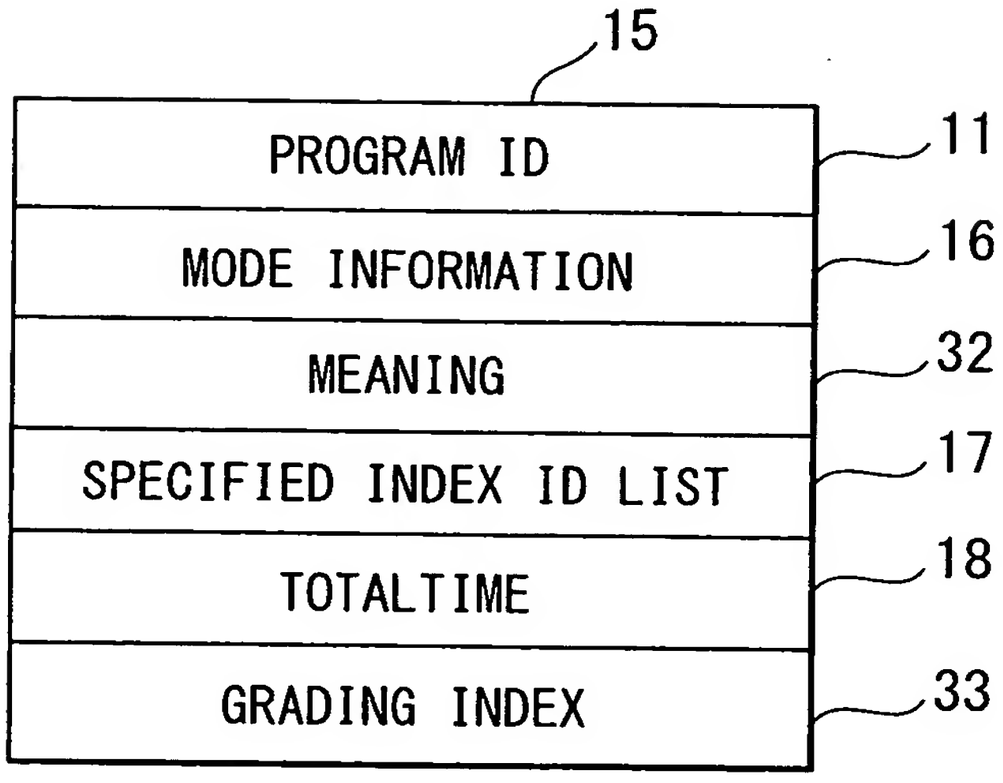

15
PROGRAM ID
11
MODE INFORMATION
16
MEANING
32
SPECIFIED INDEX ID LIST
17
TOTALTIME
18
GRADING INDEX
33

FIG. 22

```
<ContentID="200301011700FUJI">
        <modeInfo modeID="REPLAY">
                <mean>
                        <person>GIANTS-KIYOHARA</person>
                        <action>BATTING</action>
                        <result></result>
                </mean>
                <Index totalnum="3">
                        <No1 ID="001"/>
                        <No2 ID="011"/>
                        <No3 ID="035"/>
                </Index>
                <totaltime>00:05:00</totaltime>
                <Indexgrade>
                        <grade3 element="action,result">
                                <text>HOME RUN </text>
                                <text>SCORE </text>
                        </grade3 >
                        <grade2 element="action,result">
                                <text>SECOND-BASE HIT </text>
                                <text>THIRD-BASE HIT</text>
                                <text>STRIKEOUT </text>
                                <text>DOUBLE PLAY </text>
                        </grade3 >
                </Indexgrade>
        </Trigger>
</Content>
```

Inventor: Isao Shindo et al.
ACCUMULATION DISPLAY DEVICE, INTERLOCKED ...
Atty. Docket No. KAN-113US; Customer No. 52473

FIG. 23

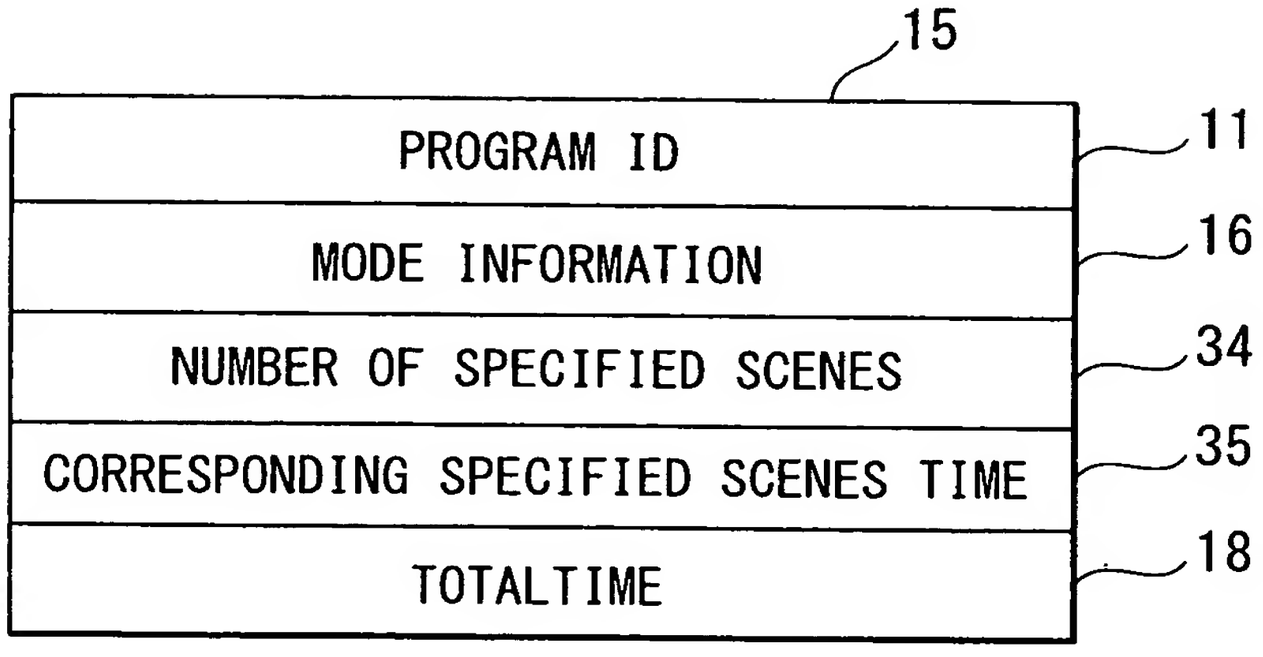

15
PROGRAM ID
11
MODE INFORMATION
16
NUMBER OF SPECIFIED SCENES
34
CORRESPONDING SPECIFIED SCENES TIME
35
TOTALTIME
18

FIG. 24

```
<ContentID="200301011700FUJI">
        <modeInfo modeID="REPLAY">
                <Index totalnum="3">
                        <No1>
                                <starttime>00:05:00<starttime/>
                                <duration>00:02:00<duration/>
                        </No1>
                        <No2>
                                <starttime>00:10:00<starttime/>
                                <duration>00:02:00<duration/>
                        </No2>
                        <No3>
                                <starttime>00:15:00<starttime/>
                                <duration>00:01:00<duration/>
                        </No3>
                </Index>
                <totaltime>00:05:00</totaltime>
        </Trigger>
</Content>
```

Inventor: Isao Shindo et al.
ACCUMULATION DISPLAY DEVICE, INTERLOCKED ...
Atty. Docket No. KAN-113US; Customer No. 52473

FIG. 25

11	PROGRAM ID		1
37	SERVICE ID (CHANNEL)		1
38	STARTTIME		19:00:00
39	TIME (DURATION)		2:00:00
40	TITLE		SERIAL DRAMA "ASU E NO TABI"
41	KEYWORD		HOPELESS
			EFFORT
			HOPE
42	PERFORMERS	DIRECTOR	TARO MATSUSHITA
		SCRIPTWRITER	HANAKO MATSUSHITA
		PERFORMERS	ICHIRO MATSUSHITA
			JIRO MATSUSHITA
43	CATEGORY		DRAMA
			FICTION
44	SERIES		THIRD EPISODE (COMPLETE IN 12 EPISODES)
45	VIEWING LIMIT		ABSENT
46	INTERLOCKED VIEWING SERVICE (MOBILE TRANSFER SERVICE)		PRESENT
16	MODE INFORMATION		DIGEST OF FIRST TO THIRD EPISODES
			HIGHLIGHTS OF ICHIRO MATSUSHITA
			HIGHLIGHTS OF JIRO MATSUSHITA
			HIGHLIGHTS OF PREVIOUS EPISODE (SECOND EPISODES)
			HIGHLIGHTS OF PREVIOUS EPISODES (FIRST AND SECOND EPISODES)